

WHAT IS CLAIMED IS:

1. A digital information receiver comprising:
 - a channel select portion which channel-selects a digital broadcasting signal accompanied with electronic program guide information and video information;
 - a demodulating portion which demodulates the video information and the electronic program guide of the digital broadcasting signal channel-selected by the channel select portion and outputs a video signal and an electronic program signal, respectively;
 - a converting portion which converts at least a part of the electronic program signal outputted from the demodulating portion to an electronic program signal of a closed caption format; and
 - a superimposing circuit which superimposes the electronic program signal of the closed caption format converted by the converting portion on the video signal outputted from the demodulating portion and outputs it.
2. A digital information receiver according to claim 1, wherein, when information of the closed caption format which originally exists in the video signal is detected, the converting portion converts at least a part of the electronic program signal outputted from the demodulating portion to the electronic program signal of the closed caption format, synthesizes the electronic program signal of the closed caption format with the information of the closed caption format which

originally exists in the video signal, and output it to the superimposing portion.

3. A digital information receiver according to claim 1, wherein, when information of the closed caption format which originally exists in the video signal is detected, the converting portion further has a decision portion which decides a data channel of the information of the closed caption format; and

a function of converting at least a part of the electronic program signal outputted from the demodulating portion to the electronic program signal of the closed caption format of a data channel different from the data channel decided by the decision portion, synthesizing the electronic program signal of the closed caption format with the information of the closed caption format which originally exists in the video signal, and outputting it to the superimposing portion.

4. A digital information receiver according to claim 1, wherein the superimposing portion superimposes the electronic program signal of the closed caption format converted by the converting portion on a vertical blanking interval region of the video signal demodulated by the demodulating portion and output it.

5. A digital information receiver according to claim 1, wherein the converting portion converts only information concerning a program, which is currently

being received, among the electronic program signals demodulated by the demodulating portion to the electronic program signal of the closed caption format.

5 6. A digital information receiver according to claim 1, wherein the converting portion converts information concerning a program, which is currently being received, and other information among the electronic program signals demodulated by the demodulating portion to the electronic program signal
10 of the closed caption format.

 7. A digital information receiver according to claim 1, wherein the converting portion converts a program, which is currently being received, among the electronic program signals demodulated by the
15 demodulating portion to the electronic program signal of a caption format and converts a program lineup except the program to the electronic program signal of a text format.

 8. A digital information receiver according to
20 claim 1, wherein the converting portion converts the electronic program signal demodulated by the demodulating portion to the electronic program signal of an XDS format, which is an extended specification of the closed caption.

25 9. A digital information receiver according to claim 1, further comprising:

 a synthesis portion which synthesizes a

synthesized video signal for displaying program
information based on the electronic program signal at a
predetermined region of an image based on the video
signal in an external display apparatus and outputs it
5 by superimposing the electronic program signal
demodulated by the demodulating portion on the video
signal according to an operating signal from an
operating portion.

10 10. A digital information receiver according to
claim 1, further comprising:

a synthesis portion which synthesizes an
electronic program signal, demodulated by the
demodulating portion, with the video signal and outputs
the synthesized video signal according to an operating
15 signal from an operating portion; and

a display portion to which the synthesized video
signal outputted from the synthesis portion is supplied
and which displays the program information, based on
the electronic program signal, at a predetermined
20 region of the image, based on the video signal.

11. A digital information receiver comprising:

a channel select portion which channel-selects a
digital broadcasting signal accompanied with electronic
program guide information and video information;

25 a demodulating portion which demodulates the video
information and the electronic program guide of the
digital broadcasting signal channel-selected by the

channel select portion and outputs a video signal and an electronic program signal, respectively;

5 a converting portion which converts at least a part of the electronic program signal outputted from the demodulating portion to an electronic program signal of a closed caption format;

10 a superimposing circuit which superimposes the electronic program signal of the closed caption format converted by the converting portion on the video signal outputted from the demodulating portion and outputs it; and

15 a recording portion which records the video signal, on which the electronic program signal of the closed caption format is superimposed by the superimposing portion, in a storage area of an optical disk in such a manner that a light beam is emitted and the storage area is irradiated with the light beam according to the video signal.

20 12. A digital information receiving method comprising:

channel-selecting a digital broadcasting signal accompanied with electronic program guide information and video information;

25 demodulating the video information and the electronic program guide of the digital broadcasting signal channel-selected by the channel select portion and outputting a video signal and an electronic program

signal, respectively;

converting at least a part of the demodulated electronic program signal to an electronic program signal of a closed caption format; and

5 superimposing the converted electronic program signal of the closed caption format on the demodulated video signal and outputting it.

13. A digital information receiving method according to claim 12, wherein, when information of the closed caption format which originally exists in the video signal is detected, the conversion converts at least a part of the electronic program signal to the electronic program signal of the closed caption format, synthesizes the electronic program signal of the closed caption format with the information of the closed caption format which originally exists in the video signal, and output it.

14. A digital information receiving method according to claim 12, wherein, when information of the closed caption format which originally exists in the video signal is detected, the conversion decides a data channel of the information of the closed caption format, converts at least a part of the electronic program signal to the electronic program signal of the closed caption format of a data channel different from the data channel decided by the decision portion, synthesizes the electronic program signal of the closed

caption format with the information of the closed caption format which originally exists in the video signal, and outputs it to the superimposing step.

15 15. A digital information receiving method according to claim 12, wherein the superimposing superimposes the electronic program signal of the closed caption format on a vertical blanking interval region of the video signal and output it.

10 16. A digital information receiving method according to claim 12, wherein the conversion converts only information concerning a program, which is currently being received, among the electronic program signals to the electronic program signal of the closed caption format.

15 17. A digital information receiving method according to claim 12, wherein the conversion converts information concerning a program, which is currently being received, and other information among the electronic program signals to the electronic program
20 signal of the closed caption format.

25 18. A digital information receiving method according to claim 12, wherein the conversion converts a program, which is currently being received, among the electronic program signals to an electronic program signal of a caption format and converts a program lineup except the program to an electronic program signal of a text format.

19. A digital information receiving method
according to claim 12, wherein the conversion converts
the electronic program signal to an electronic program
signal of an XDS format, which is an extended
5 specification of the closed caption.

20. A digital information receiving method
according to claim 12, further comprising:

synthesizing a synthesized video signal for
displaying program information based on the electronic
10 program signal at a predetermined region of an image
based on the video signal in an external display
apparatus, and outputting it by superimposing the
electronic program signal demodulated by the
demodulating portion on the video signal according to
15 an operating signal from an operating portion.